Cisco Unified IP Color Key Expansion Module

Cisco® Unified Communications Solutions enable collaboration so that organizations can quickly adapt to market changes while increasing productivity, improving competitive advantage through speed and innovation, and delivering a rich-media experience across any workspace, securely and with optimal quality.

Figure 1. Cisco Unified IP Color Key Expansion Module

Product Overview

Call coverage is a critical capability for administrative assistants and others who must monitor, manage, and cover the status of calls. This capability requires the ability to instantly determine the status of numerous lines beyond those of the Cisco® Unified IP Phone 9971, 9951, and 8961 models.

The Cisco Unified IP Color Key Expansion Module extends the capabilities of the Cisco Unified IP Phone 9971, 9951, and 8961 models with additional buttons and a color LCD display. This key expansion module adds 18 physical keys with access to 18 additional keys through the page keys for a total of 36 additional keys. You can connect up to three Cisco Unified IP Color Key Expansion Modules to the Cisco Unified IP Phone 9971, up to two key expansion modules to the Cisco Unified IP Phone 9951, and one key expansion module to the Cisco Unified IP Phone 8961.

You can connect the Cisco Unified IP Color Key Expansion Module to the Cisco Unified IP Phone 9971, 9951, and 8961 models directly in the traditional side-by-side fashion or indirectly in a tethered fashion with an optional tethered cord.

The Cisco Unified IP Color Key Expansion Module comes with a foot stand and all necessary hardware to connect it directly to the base device. Tethered configuration requires the purchase of the tethered cord.

The key expansion module also articulates in the same manner as that of the Cisco Unified IP Phones it connects to, allowing you to match the same articulation angle.

© 2009 Cisco Systems, Inc. All rights reserved. This document is Cisco Public Information.

Features and Benefits

The large LCD display of the Cisco Unified IP Color Key Expansion Module allows for quick and easy identification of associated buttons. Using the Preferences menu of the Cisco Unified IP Phone 9971, 9951, and 8961 models, you can adjust the brightness of the individual key-expansion-module LCDs according to preference.

You can program feature key buttons on the Cisco Unified IP Color Key Expansion Module as a directory number, line key, or speed-dial key. The buttons are illuminated, and when configured as a directory number or shared-line keys they allow for easy identification of call state. This capability provides features that are similar to those of typical direct station selection/busy lamp field (DSS/BLF) modules but are not intended to be directly comparable to those of traditional DSS/BLF modules. The Cisco Unified IP Color Key Expansion Module is neither an operator nor an attendant console. Its primary function is to provide the Cisco Unified IP Phone 9971, 9951, and 8961 models with additional keys for features such as speed dial or directory numbers. The illuminated buttons make it easy to determine line status, making the Cisco Unified IP Color Key Expansion Module an ideal call-coverage tool.

The two illuminated page buttons beneath the display of the Cisco Unified IP Color Key Expansion Module allow you to shift between the first and second pages of 18 buttons, providing access to all 36 keys, 18 at a time.

Table 1 describes the features and benefits in more detail.

Table 1. Features and Benefits

Feature	Benefits
Illuminated Buttons	
Off (dark)	Line available
Green, steady	Line in use
Red, steady	Line in use by someone else
Amber, flashing	Line ringing
Illuminated Page Buttons	
Off (dark)	Page not in focus
Green, steady	Page in focus
Amber, flashing	Page not in focus, with one or more alerting or on-hold calls present on page
Hardware and Power-Saving Features	
Graphical display	The 4.3-in. graphical (TFT) color display provides 16-bit color depth and 480 x 272 effective pixel resolution, with backlight. The display also supports localization requiring double-byte Unicode encoding for fonts.
Articulation	You can articulate the display to match the same angle as the Cisco Unified IP Phone it is connected to.
Directory-number and feature buttons	The module has 18 physical buttons (36 with page key).
Page buttons	The two Page buttons are used to access each page of 18 buttons and provide phone status.
Sleep or inactivity mode	When Cisco Unified IP Phone 9971, 9951, and 8961 models are in power-saving sleep or inactivity mode, the Cisco Unified IP Color Key Expansion Module is also in sleep or inactivity mode. Pressing any button on the key expansion module causes the displays to awaken. The system administrator configures the inactivity period.

Hardware Support and Compatibility

Table 2 describes the Cisco IP Color Key Expansion Module hardware support compatibility.

Table 2. Cisco IP Color Key Expansion Module Hardware Support Compatibility

Cisco Unified IP Phone Model	Number of Cisco Unified IP Color Key Expansion Modules Supported
9971	3
9951	2
8961	1

© 2009 Cisco Systems, Inc. All rights reserved. This document is Cisco Public Information.

Product Specifications

Table 3 describes the Cisco IP Color Key Expansion Module hardware product specifications.

Table 3. Product Specifications

Feature	Specifications
Physical dimensions (H x W x D)	9.21 x 5.04 x 1.61 in. (234 x 128 x 41 mm)
Weight	Charcoal: 1.03 lb (465g) White: 1.1 lb (498g)
Power	48 VDC, 117 mA maximum
Operating temperature	32 to 104°F (0 to 40°C)
Relative humidity	10 to 95%
Storage temperature	12 to 140°F (–10 to 60°C)
Approvals and compliance	http://www.cisco.com/en/US/docs/voice_ip_comm/cuipph/all_models/regulatory_compliance/english/install/guide/iphrcsi3.html

System Requirements

Table 4 lists the system requirements for the Cisco Unified IP Color Key Expansion Module.

Table 4. System Requirements

Phone Firmware/Media Control Server	Release
Cisco Unified IP Phone firmware	9.0(1) and later
Call-control compatibility	Cisco Unified Communications Manager 7.1(3) and later; Cisco Unified Survivable Remote Site Telephony (SRST) 7.1 (Cisco IOS® Software Release 12.4(24)T) and later

Power Requirements

If the Cisco Unified IP Color Key Expansion Module is connected to a Cisco Unified IP Phone that uses 802.3AT power, a local power supply is not required. If the phone uses 802.3AF power, you must connect a power cube to it for it to supply power for all connected key expansion modules. If the phone is already locally powered by a power cube, no additional power cube is required when installing the key expansion module to it.

Ordering Information

To place an order, visit the Cisco Ordering Home Page and refer to Tables 5 and 6. To download software, visit the Cisco Software Center.

Table 5. Ordering Information

Product Name	Part Number
Cisco Unified IP Color Key Expansion Module, Charcoal	CP-CKEM-C=
Cisco Unified IP Color Key Expansion Module, White	CP-CKEM-W=
Cisco Unified IP Phone Audio Cable, Charcoal (optional)	CP-AUDIO-CABLE-C=
Cisco Unified IP Phone Audio Cable, White (optional)	CP-AUDIO-CABLE-W=
Cisco Unified IP Color Key Expansion Tethered Cord (optional)	CP-CKEM-CORD=
Cisco Unified IP Phone Power Cube	CP-PWR-CUBE-4=
Cisco Unified IP Phone Power Country Cord	CP-PWR-CORD-xx=

© 2009 Cisco Systems, Inc. All rights reserved. This document is Cisco Public Information.

Table 6. Ordering Information – AC Country Power Cords

Country Cord	Part Number
Asia Pacific	CP-PWR-CORD-AP=
Argentina	CP-PWR-CORD-AR=
Australia	CP-PWR-CORD-AU=
European Community	CP-PWR-CORD-CE=
China	CP-PWR-CORD-CN=
Japan	CP-PWR-CORD-JP=
North America	CP-PWR-CORD-NA=
Switzerland	CP-PWR-CORD-SW=
United Kingdom	CP-PWR-CORD-UK=

Warranty

Cisco Unified IP Phones are covered by a Cisco standard 1-year replacement warranty.

For More Information

For more information about the Cisco Unified IP Color Key Expansion Module, visit www.cisco.com/go/ipphones/accessories,or contact your local Cisco account representative.

Americas Headquarters
Cisco Systems, Inc.
San Jose, CA

Asia Pacific Headquarters
Cisco Systems (USA) Pte. Ltd.
Singapore

Europe Headquarters
Cisco Systems International BV
Amsterdam, The Netherlands

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco Website at www.cisco.com/go/offices.

CCDE, CCENT, CCSI, Cisco Eos, Cisco HealthPresence, Cisco IronPort, the Cisco logo, Cisco Lumin, Cisco Nexus, Cisco Nurse Connect, Cisco Pulse, Cisco StackPower, Cisco StadiumVision, Cisco TelePresence, Cisco Unified Computing System, Cisco WebEx, DCE, Flip Channels, Flip for Good, Flip Mino, Flipshare (Design), Flip Ultra, Flip Video, Flip Video (Design), Instant Broadband, and Welcome to the Human Network are trademarks; Changing the Way We Work, Live, Play, and Learn, Cisco Capital, Cisco Capital (Design), Cisco:Financed (Stylized), Cisco Store, and Flip Gift Card are service marks; and Access Registrar, Aironet, AllTouch, AsyncOS, Bringing the Meeting To You, Catalyst, CCDA, CCDP, CCIE, CCIP, CCNA, CCNP, CCSP, CCVP, Cisco, the Cisco Certified Internetwork Expert logo, Cisco IOS, Cisco Press, Cisco Systems, Cisco Systems Capital, the Cisco Systems logo, Cisco Unity, Collaboration Without Limitation, Continuum, EtherFast, EtherSwitch, Event Center, Explorer, Fast Step, Follow Me Browsing, FormShare, GainMaker, GigaDrive, HomeLink, iLYNX, Internet Quotient, IOS, iPhone, iQuick Study, IronPort, the IronPort logo, Laser Link, LightStream, Linksys, MediaTone, MeetingPlace, MeetingPlace Chime Sound, MGX, Networkers, Networking Academy, Network Registrar, PCNow, PIX, PowerKEY, PowerPanels, PowerTV, PowerTV (Design), PowerVu, Prisma, ProConnect, ROSA, ScriptShare, SenderBase, SMARTnet, Spectrum Expert, StackWise, The Fastest Way to Increase Your Internet Quotient, TransPath, WebEx, and the WebEx logo are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the United States and certain other countries.

All other trademarks mentioned in this document or website are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (0908R)

Printed in USA C78-565427-00 11/09

© 2009 Cisco Systems, Inc. All rights reserved. This document is Cisco Public Information.